California Regional Water Quality Control Board
San Diego Region

Terry Tamminen
Secretary for Environmental Protection

9174 Sky Park Court, Suite 100, San Diego, California 92123-4340
(858) 467-2952 • Fax (858) 571-6972
http://www.swrcb.ca.gov/rwqcb9

Arnold Schwarzenegger
Governor

June 15, 2004 SMCU: 50-3396.051: toblb

United States Marine Corps Base Camp Pendleton
Assistant Chief of Staff - Environmental Security
Environmental Engineering Division
Attn: Ms. Tracy Sahagun
P.O. Box 555008, Building 22165
Camp Pendleton, CA 92055-5008

Dear Tracy Sahagun,

RE: MARINE CORPS BASE, CAMP PENDLETON, CALIFORNIA SITE 41311

This letter confirms the completion of a site investigation and remedial action for the underground storage tanks formerly located at the above described location. Thank you for your cooperation throughout this investigation. Your willingness and promptness in responding to our inquiries concerning the former underground storage tanks are greatly appreciated.

Based on the information in the above-referenced file and with the provision that the information provided to this agency was accurate and representative of site conditions, no further action related to the underground tank release is required.

This notice is issued pursuant to a regulation contained in Section 2721(e) of Title 23 of the California Code of Regulations.

Please contact Benjamin Tobler of our office at (858) 467 – 2736 if you have any questions regarding this matter.

Sincerely,

JOHN H. ROBERTUS
Executive Officer

JHR:jpa:bct

Attachment: Case Closure Summary

Case Closure Summary

UNDERGROUND STORAGE TANK (UST) PROGRAM

I. CASE INFORMATION

DATE: June 15, 2004

Site Name: Site 41311		
Site Address: Marine Corps Base, Camp Pendleton, California		
Responsible Party Name: Tracy Sahagun	***RP Phone Number:*** (760) 725-9744	
Responsible Party Address: United States Marine Corps, Box 555010, Camp Pendleton, California		
Current Land Use: Military facility		
RWQCB File Number: 50-3396.051	***Local Case Number:*** 9UT3396	***RWQCB Staff:*** BCT
Basin Number: 1.52	***Basin Uses:*** Municipal and Agricultural	

II. RELEASE AND SITE CHARACTERIZATION INFORMATION

Description of the unauthorized release (cause, release date, source[s]): Two 10,000-gallon USTs containing diesel fuel and one 15,000-gallon UST containing unleaded gasoline. Product piping that served the USTs appeared to have corroded and leaked causing impacts to the surrounding soil. Elevated TPHd concentrations were found at 5 locations at a maximum depth of 10 feet, but all samples below 10 feet exhibited TPHd levels which were non-detectable. No groundwater impacts were found. Releases were discovered in August of 1994 when the USTs and product piping were removed.	
Contaminant[s] identified and amount leaked: TPHd, toluene, xylene, ethylbenzene and MTBE were found. The amount leaked was not determined. TPHg and benzene were not detected.	
Description of the soil/geology Silty sands to a depth of 7 to 11 feet with clayey sand layer below.	
Is soil contamination completely delineated (to what levels)? Yes. TPHd and TPHg were characterized to a level of 10 mg/kg, aromatics to a level of 0.05 mg/kg, and MTBE to a level of 0.05 mg/kg.	
Areal extent? Areal extent is estimated to consist of four circular areas consisting of 1250sf, 300sf, 75sf and 75sf. Together they total approximately 1700sf.	
Vertical extent? All samples obtained at 15 feet below ground surface in the tank excavation exhibited contamination levels below the detection limit.	
Est. Volume of contaminated soil left on site and concentration: Remaining soil with some contamination is estimated to be about 314 cubic yards based on an average depth of impacts of about 10 feet. Excluding a sample with 22,740 mg/kg of TPHd which impacted a very small area, the average TPHd concentration in the affected zone is about 198 mg/kg TPHd.	
Is groundwater contamination completely delineated (to what levels)? Groundwater impact risk was determined to be negligible due to clayey sand layer acting as shield and 40 foot separation. No groundwater was encountered.	
Monitoring wells installed, properly permitted? No	***Number of monitoring wells:*** 0
Depth to groundwater: Estimated 50 ft (BGS)	***Seasonal or tidal fluctuation***: Unknown
Groundwater flow direction: West	***Gradient:*** Unknown
Is groundwater or surface water impacted? No	
Is groundwater contamination contained on site? NA	
Nearest receptor (Inland Surface Water, Bay, Drinking Water Wells, etc.): The nearest supply well is about 1.5 miles NE of the site. The nearest surface waters are 2 ephemeral streams about 400yds NW & SW of the site.	

III. MAXIMUM DOCUMENTED CONTAMINANT CONCENTRATION

Contaminant	Soil (mg/kg) initial	Soil (mg/kg) current	Water (ug/l) initial	Water (ug/l) current
TPHd	22,740	22,740*	NA	NA
Benzene	ND (0.05)	ND (0.05)	NA	NA
Toluene	0.129	0.129	NA	NA
Ethylbenzene	0.224	0.224	NA	NA
Xylene	0.231	0.231	NA	NA
MTBE	0.474	0.474	NA	NA

*Single sample result from small shallow area. Average concentration remaining onsite is 198 mg/kg.

IV. TREATMENT AND DISPOSAL OF AFFECTED MATERIAL

Material	Amount (include units)	Action (treatment or disposal)	Concentration	Date
Tanks Diesel	2	Removed and disposed	NA	8/94
Tank Unlead	1	Removed and disposed	NA	8/94
Piping	~370 feet	Removed and disposed	NA	8/94

V. CLOSURE

Does completed corrective action protect beneficial uses per the RWQCB Basin Plan? Yes.		
Should corrective action be reviewed if land use changes? No.		
Monitoring wells decommissioned? NA	***Number decommissioned:*** NA	***Number retained:*** NA
Enforcement actions taken: None		
Enforcement actions rescinded: None.		

VI. Signature of Reviewer

Benjamin C. Tobler Date 6/15/04

Benjamin C. Tobler

VII. Signature of Senior Staff

John P. Anderson Date 6/15/04

John P. Anderson

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